DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	80	13.2/13.9	295 R3	1204

REGISTERED ELECTRICAL ENGINEER — 12/19/02 DATE

REGISTERED PROFESSIONAL ENGINEER — JENS ERLINGSSON No. 8249 Exp. 9/30/06 ELECTRICAL — STATE OF CALIFORNIA

12-6-04
PLANS APPROVAL DATE

PB POWER, Inc.
A Parsons Brinckerhoff Company
303 Second St., Suite 700N
San Francisco, CA 94107-1317

AVIATION AND NAVIGATION LIGHTING FIXTURE SCHEDULE

Type	Description	Remarks
AV-1	Main Tower Marker Light FAA L-864, medium intensity, flashing, red, obstruction light. The light shall consist of a red lantern with six marine signal lamps controlled by a six-place microprocessor lamp changer. The flashing shall be at a rate of 20 flashes per minute. Input power shall be 480 VAC, single phase and be input to a transder.	
AV-2	Main Cable Marker Light FAA L-810, steady, red, obstruction light. The light shall consist of a red lantern with four marine signal lamps controlled by a four-place microprocessor lamp changer. Incoming power shall be 480 VAC, single phase and shall be input to a transformer.	
NV-1	Main Channel Marker Navigation Light shall consist of a green lantern with a 360-degree horizontal arc, with six marine signal lamps controlled by a six-place microprocessor lamp changer. Incoming power shall be 120 VAC, single phase and shall be input to a transformer. The rectified output shall be at 12 VDC to power the lamps. The housing shall be corrision-resistant and gasketed.	
NV-2	Channel Marker Navigation Light shall consist of a green lantern with a 360-degree horizontal arc, with six marine signal lamps controlled by a six-place microprocessor lamp changer. Incoming power shall be 120 VAC, single phase and shall be input to a transformer. The rectified output shall be at 12 VDC to power the lamps. The housing shall be corrosion-resistant and gasketed.	Not used in this contract.
NV-3	Navigation Pier Marker Light Consists of one (1) red signal lantern that show through a horizontal arc of 180 degrees controlled by four-place lampchanger. The housing shall be corrosion resistant and gasketed. Includes 120 V input power to transformer, and rectifier output to operate the lamps at 12 V DC. All lights shall conform to the latest provisions of Title 33 CFR Chapter 1, Section 118.60.	
NV-4	Red in color, with 360 degree visibility. Pharos Marine/Automatic Power FA-249 LED Bridge Lantern, 120VAC, with 3x4 LED Array, or approved equivalent.	To mark reduced vertical clearance under OBG Travelers.

REGISTERED PROFESSIONAL ENGINEER — SYN YEE CHIN No. 18186 Exp. 09/30/2011 ELECTRICAL — STATE OF CALIFORNIA

Syn Yee Chin
FOR REVISION ONLY
2 3

REGISTERED PROFESSIONAL ENGINEER — FADI WALIEDDINE No. 11465 Exp. 12/31/2009 ELECTRICAL — STATE OF CALIFORNIA

FOR REVISION ONLY
1

REQUEST FOR INFORMATION NOT ADDRESSED IN THIS CCO REMAIN IN FORCE

MARK	DATE	DESCRIPTIONS	BY	CH'D	CCO#
		REVISIONS			
3	10/15/10	TRAVELER MODIFICATIONS	NK	RG	137
2	08/13/10	TRAVELER MODIFICATIONS	TW	RG	137
1	04/10/09	ELECTRICAL WARNING SYSTEMS	RY RR	RG FW	61

CONTRACT CHANGE ORDER NO._____
SHEET_____ OF _____

DETAILS
NAVIGATION AND AVIATION WARNING SYSTEMS LIGHTING FIXTURE SCHEDULE

NO SCALE

E-297

DESIGN OVERSIGHT — BEHZAD GOLEMOHAMMADI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

	CALCULATED/ DESIGNED BY	CHECKED BY	DATE	REVISED BY	DATE REVISED
3	EDC	KG	10/01		
2			11/01		
1					

LAST REVISION 00-00-00 — DATE PLOTTED => 10/13/2010 — TIME PLOTTED => 12:33:28 PM

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

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